AMENDMENTS TO THE CLAIMS:

Please amend claims 1-13 and add new claims 14-20 as follows. The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended). A correlation ~~Correlation~~ system [[(4)]] for correlating an input signal with a number of code signals each having a code length, ~~characterized in that said correlation system (4) comprises~~ comprising:

5   a plurality of correlators; and

a controller [[(3)]] for controlling said correlation system [[(4)]] for performing iterative correlations and for adapting at least one correlation parameter per iterative correlation, a first one of the at least one correlation parameter being a

10   length of code signals, said controller controlling said correlators such that first correlations are performed by all of said correlators using the same code signals each having a first length smaller than said code length and second correlations are performed by only a portion of said correlators selected based on

15   results of the first correlations and using the same code signals each having a second length larger than said first length and

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smaller than or equal to said code length.

Claim 2 (Currently Amended). The correlation ~~Correlation~~
system [[(4)]] according to claim 1, ~~characterized in that a~~
~~first correlation parameter corresponds with the length of code~~
~~signals, with first correlations using code signals each having a~~
~~first length smaller than said code length, and with next~~
~~correlations using code signals each having a second length~~
~~larger than said first length and smaller than or equal to said~~
~~code length~~ wherein the second length is smaller than said code
length, said controller controlling said correlators such that
third correlations are performed using the same code signals each
having a third length larger than said second length and smaller
than or equal to said code length, said third correlations being
performed by fewer correlators than used to perform said second
correlations.

Claim 3 (Currently Amended). The correlation ~~Correlation~~
system [[(4)]] according to claim [[2]] 1, ~~characterized in that~~
wherein a second correlation parameter corresponds with the
number of code signals, with the first correlations using a first
number of code signals, and with [[next]] the second and any
subsequent correlations using a second number of code signals
smaller than said first number of code signals.

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Claim 4 (Currently Amended). The correlation ~~Correlation~~ system [[(4)]] according to claim [[3]] 1, ~~characterized in that~~ wherein said controller [[(3)]] is coupled to a comparator [[(5)]] for comparing correlation results for ~~in dependence of~~ ~~comparison results~~ adapting said at least one correlation parameter in dependence of comparison results.

Claim 5 (Currently Amended). The correlation ~~Correlation~~ system [[(4)]] according to claim 4, ~~characterized in that~~ wherein said controller [[(3)]] is coupled to a selector [[(5)]] for ~~in response to comparison results~~ selecting a reduced number of code signals to be used for next correlations in response to the comparison results.

Claim 6 (Currently Amended). A mobile ~~Mobile~~ terminal [[(1)]] for searching cells identified by code signals, which mobile terminal [[(1)]] comprises a receiver [[(2)]] for receiving a radio signal comprising at least one code signal and for converting said radio signal into an input signal and ~~comprises~~ a correlation system [[(4)]] coupled to said receiver [[(2)]] for correlating said input signal with a number of said code signals each having a code length, ~~characterized in that~~ wherein said correlation system [[(4)]] comprises:

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10   a plurality of correlators; and

        a controller [[(3)]] for controlling said correlation system

        [[(4)]] for performing iterative correlations and for adapting at

        least one correlation parameter per iterative correlation, said

        controller controlling said correlators such that first

15   correlations are performed by all of said correlators using the

        same code signals each having a first length smaller than said

        code length and second correlations are performed by only a

        portion of said correlators selected based on results of the

        first correlations and using the same code signals each having a

20   second length larger than said first length and smaller than or

        equal to the code length.

        Claim 7 (Currently Amended).   The mobile ~~Mobile~~ terminal

        [[(1)]] according to claim 6, ~~characterized in that a first~~

        ~~correlation parameter corresponds with the length of code~~

        ~~signals, with first correlations using code signals each having a~~

5   ~~first length smaller than said code length, and with next~~

        ~~correlations using code signals each having a second length~~

        ~~larger than said first length and smaller than or equal to said~~

        ~~code length~~ wherein the second length is smaller than said code

        length, said controller controlling said correlators such that

10   third correlations are performed using the same code signals each

        having a third length larger than said second length and smaller

than or equal to said code length, said third correlations being
performed by fewer correlators than used to perform said second
correlations.

Claim 8 (Currently Amended). The mobile ~~Mobile~~ terminal
[[(1)]] according to claim [[7]] 6, ~~characterized in that~~ wherein
a second correlation parameter corresponds with the number of
code signals, with the first correlations using a first number of
code signals, and with ~~next~~ the second and any subsequent
correlations using a second number of code signals smaller than
said first number of code signals.

Claim 9 (Currently Amended). The mobile ~~Mobile~~ terminal
[[(1)]] according to claim [[8]] 6, ~~characterized in that~~ wherein
said controller [[(3)]] is coupled to a comparator (5) for
comparing correlation results for ~~in dependence of comparison~~
~~results~~ adapting said at least one correlation parameter in
dependence of comparison results until at least one cell has been
found through identification of at least one code signal.

Claim 10 (Currently Amended). The mobile ~~Mobile~~ terminal
[[(1)]] according to claim 9, ~~characterized in that~~ wherein said
controller [[(3)]] is coupled to a selector [[(5)]] for ~~in~~
~~response to comparison results~~ selecting a reduced number of code

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5   signals to be used for next correlations in response to the

comparison results until at least one cell has been found through

identification of at least one code signal.

Claim 11 (Currently Amended). A method ~~Method~~ for

correlating an input signal with a number of code signals each

having a code length, ~~characterized in that said method comprises~~

~~the steps of~~ comprising:

5   performing iterative correlations and ~~of~~ adapting at least

one correlation parameter per iterative correlation, said step of

performing iterative correlations and adapting at least one

correlation parameter per iterative correlation comprising:

performing first correlations using all of a plurality of

10   correlators using the same code signals each having a first

length smaller than the code length, and performing second

correlations using only a portion of the correlators selected

based on results of the first correlations and using the same

code signals each having a second length larger than the first

15   length and smaller than or equal to the code length.

Claim 12 (Currently Amended). A processor ~~Processor~~ program

product embodied in computer-readable media for correlating an

input signal with a number of code signals each having a code

length, ~~characterized in that~~ wherein said processor program

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5   product comprises the functions of performing iterative

correlations and [[of]] adapting at least one correlation

parameter per iterative correlation<u>, said processor program

product being arranged to provide the same code signals each

having a first length smaller than said code length to all of a</u>

10   <u>plurality of correlators, obtain the correlation results from all

of said plurality of correlators, and then provide the same

additional code signals each having a second length larger than

said first length and smaller than or equal to the code length to

only a portion of said correlators based on the obtained</u>

15   <u>correlation results</u>.

      Claim 13 (Currently Amended). A method ~~Method~~ for searching

cells identified by code signals, ~~which method comprises the~~

~~steps of~~ comprising:

      receiving a radio signal comprising at least one code

5   signal<u>;</u> ~~and of~~

      converting said radio signal into an input signal<u>;</u> ~~and of~~

      correlating said input signal with a number of said code

signals each having a code length<u>; and</u> ~~, characterized in that~~

~~said method comprises the steps of~~

10   performing iterative correlations and [[of]] adapting at

least one correlation parameter per iterative correlation<u>, said

step of performing iterative correlations and adapting at least</u>

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one correlation parameter per iterative correlation comprising

performing first correlations using all of a plurality of

15   correlators using the same code signals each having a first

length smaller than said code length, and performing second

correlations using only a portion of said correlators selected

based on results of the first correlations and using the same

code signals each having a second length larger than said first

20   length and smaller than or equal to the code length.

     Claim 14 (New). The correlation system according to claim

1, wherein the code signals having the first length are an

initial portion of the code signals.

     Claim 15 (New). The mobile terminal according to claim 6,

wherein the code signals having the first length are an initial

portion of the code signals.

     Claim 16 (New). The method according to claim 11, further

comprising forming the code signals having the first length from

an initial portion of the code signals.

     Claim 17 (New). The method according to claim 11, further

comprising:

     determining which of the correlators provide the best

correlation results from the first correlations; and

5   using those correlators determined to provide the best

results from the first correlations as the portion of correlators

used for the second correlations.

       Claim 18 (New). The method according to claim 11, wherein

the second length is smaller than the code length, and further

comprising performing additional correlations using only a

portion of those correlators used for the second correlations and

5 using the same code signals each having a third length larger

than the second length and smaller than or equal to the code

length.

       Claim 19 (New). The method according to claim 11, further

comprising:

       identifying a single correlator which provides the best

correlation result after performing the first and second

5 correlations; and

       analyzing the correlation result relative to a threshold.

       Claim 20 (New). The method according to claim 11, further

comprising varying the difference between the first and second

lengths as a function of the correlation results from the first

correlations.